

1.5 to 2.4, and a number average molecular weight of 400 to 6000, dispersity 300 to 3500.

(29) For the production of the PUR elastomers according to the invention, low molecular weight difunctional chain extenders, tri- or tetra-functional crosslinking agents, or mixtures of chain extenders and crosslinking agents, may additionally be used as component d).

(30) Chain extenders and crosslinking agents: of this type are used for modifying the mechanical properties, particularly the hardness, of PUR elastomers. Suitable chain extenders such as alkanediols, diethylene glycols and polyalkylene polyols, and crosslinking agents e.g. tri- or tetrahydrofuran alcohols and oligomeric polyalkylene polyols with a functionality of 3 to 4, usually have molecular weights (at 25°C) preferably from 12 to 400, and particularly from 60 to 300. The chain extenders which are preferably used include alkanediols containing 2 to 12, preferably 2, 4 or 6 carbon atoms, e.g. ethanediol, 1,6-hexanediol, 1,7-heptanediol, 1,5-octanediol, 1,9-nonanediol, 1,10-decanediol and particularly 1,4-butanediol, and diethylene glycols containing 4 to 8 carbon atoms, e.g. diethylene glycol and dipropylene glycol as well as polyoxalkylene glycols. Other substances which are suitable here include branched chain and/or unsaturated alkanediols which usually contain not more than 12 carbon atoms, such as 1,2-propanediol, 2-methyl-1,3-propanediol, 2,2-dimethyl-1,3-propanediol, 2-methyl-2-ethyl-1,3-propanediol, 2-butene-1,4-diol and 2-butene-1,4-diol, diesters of terephthalic acid with glycols comprising 2 to 4 carbon atoms, such as terephthalic acid-bis-*o*-ethylene glycol or terephthalic acid-bis-1,4-butenedioyl, hydroxylalkylene esters of hydroquinone or resorcinol, e.g. 1,4-di-(*beta*-hydroxyethyl)-hydroquinone or 1,3-(*beta*-hydroxyethyl)-resorcinol, alkalamines comprising 2 to 12 carbon atoms such as ethanalamine, 2-amino propane and 3-amino-2,2-dimethylpropanol.

Value	Document ID	Issue Date / Pages	Title	Current US	Current EP	Retrieval ID	Inventor	S	C	R
<input checked="" type="checkbox"/>	US 6737471 B2	20040318 / 7	Soloyurethane elastomers which exhibit improved	524/773	521/128; 521/129;		Lorenz, Klaus et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

BRS:
 BRS:
 BRS:
 Pending
 Active
 Failed
 Saved
EAST
 S1: (16) ("6534856") or ("6281393") or ("5872
 S2: (461) polycoxypropylenediamine
 S3: (1) S1 and S2
 S4: (180) polycoxypropylenetriamine
 S5: (317316) polyurethane
 S6: (538255) foamS
 S7: (67) S2 and S4
 S8: (539) S2 or S4
 S9: (163843) S3 and S6
 S10: (666) S21/170
 S11: (1615) S21/174
 S12: (3) S7 and S9 and S11
 S13: (1) S7 and S9 and S10
 S14: (4) S8 and S9 and S10
 S15: (5) S8 and S9 and S11
 S16: (312) (tetra adj functional) same crosslink
 S17: (0) S10 and S16
 S18: (1) S11 and S16

Favorites

US-PAT-NO: 6737471
 DOCUMENT-IDENTIFIER: US 6737471 B2
 TITLE: Polyurethane elastomers which exhibit improved stability to hydrolysis
 DATE-ISSUED: May 18, 2004
 INVENTOR-INFO: NAME: CITY: STATE: ZIP CODE: COUNTRY:
 Lorenz, Klaus Dornmagen N/A N/A DE
 Schutze, Marc Dusseldorf N/A N/A DE
 Nicheis, Erhard Kolin N/A N/A DE
 Eckhardt, Alexander Holz N/A N/A DE
 ASSIGNEE INFORMATION: NAME: CITY: STATE: ZIP CODE: COUNTRY: TYPE CODE:
 Bayer Leverkusen N/A N/A DE 03
 Aktiengesellschaft
 APPL-NR: 16/ 020473
 DATE FILED: December 14, 2001
 FOREIGN-APPL-PRIORITY-DATA:
 COUNTRY APPL-NR APPL-DATE
 DE 100 63 497 December 20, 2000

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US-PAT-NO	Document-NO	Issue-Date	Pages	Title	Current-CH	Current-CHS	Patent-Status	Attacher	Print	Print	Print	Print
US 6737471 B2	20040518	7		Polyurethane elastomers which exhibit improved	S24/773	S21/129/		Lorenz, Klaus et al.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

2 L1: (29) !(?"3,094,434") or !(?"3,989,651") or !(?"
 2 L3: (96) poly adj G
 2 L4: (0) 12 and 13
 2 L2: (39) LCPNANATE ADJ m2G
 2 L5: (666) polyether adj diamine
 2 L6: (42) polyether adj triamine
 2 L7: (2546) tetrol
 2 L8: (7) 15 and 17
 2 L9: (3) 16 and 17
 2 L10: (99592) polyurethane and foam
 2 L11: (657) 17 and 110
 2 L12: (160) polyoxypropylenetriamine
 2 L13: (1) 111 and 112
 2 L14: (2) ("4246369").PN.
 2 L15: (675) 521/153
 2 L16: (611) 521/157
 2 L17: (669) 521/170
 2 L18: (1816) 521/174
 2 L19: (1123) 115 or 116
 2 L20: (1328) 117 or 118
 2 L21: (326) 119 and 120
 2 L22: (25) 121 and 17
 2 L23: (2) ("4722946").PN.
 2 L24: (2) ("4980386").PN.
 2 L25: (2) ("48399387").PN.
 2 Failed

EAST

File	Search	Print	Exit
File: 19890615-19881027-48399387-001.wsp			
Reference: 0			
48399387			

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Document	Number	Date	Type	Description	Priority	Category	Author	Comments
<input type="checkbox"/>	US 48399387 A	19890615	6	Polyurethane soft foam with sound insulating and damping properties	521/159	264/171.14/264/45.4	Lohmar, Ernst et al.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input checked="" type="checkbox"/>	JP 63260916 A	19881027	6	Sound proofing and vibration damping polyurethane type				<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>